

Switch OFF the SMEC  
File: H\_FCP\_SPI\_SMCf.xls  
Author: R. Biggins



## Procedure Summary

### Objectives

The objective of this procedure is to switch OFF the spectrometer mechanism (SMEC)

### Summary of Constraints

n/a

### Spacecraft Configuration

#### Start of Procedure

SPIRE is in SMEC\_ON mode

#### End of Procedure

SPIRE is in SMEC\_OFF mode

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HFSSMCF

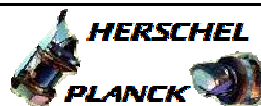
### Referenced Displays

ANDs      GRDs      SLDs  
SA\_6\_559  
SAS0\_559

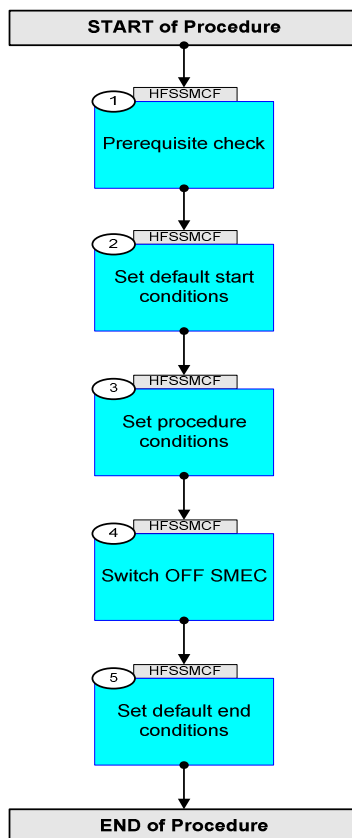
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
07/08/2007		1	Created	R. Biggins	
15/01/2008		2	Update due to initial testing against the simulator: 2 - TCs updated due to new DB	R. Biggins	

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## Procedure Flowchart Overview



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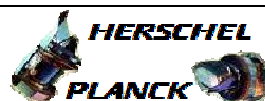
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
HFSSMCF Switch OFF SMEC				
SSID :				
1		Prerequisite check		Next Step: 2
		Verify Telemetry  MODE SM00M500	= SMEC_ON	AND=SA_6_559
2		Set default start conditions		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	SET_OBS_STEP  Command Parameter(s) : OBSERVATION_STEP SP03N500  TC Control Flags : GBM IL DSE --- -- ---  SSID : 370	SC003500  0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID SP01N500  TC Control Flags : GBM IL DSE --- -- ---  SSID : 370	SC001500  80010001 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP  Command Parameter(s) : OBSERVATION_STEP SP03N500  TC Control Flags : GBM IL DSE --- -- ---  SSID : 370	SC003500  1 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_OBSID  Command Parameter(s) : OBSERVATION_ID SP00N500  TC Control Flags : GBM IL DSE --- -- ---  SSID : 370	SC000500  B0000000 <hex>	

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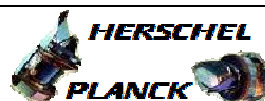
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP                      SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500  0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID                      SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC001500  80000000 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP                      SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500  0 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID                      SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC001500  80020001 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP                      SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500  1 <hex>	
3		Set procedure conditions		Next Step: 4

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	RESET_DRCU_COUNTERS  RESET_DRCU_COUNTERS  TC Control Flags :  SSID : 370  GBM IL DSE --- -- ---	SCD00505	
	ET=+00.00.01 UT=+00.00.01	SET_OBSID  SET_OBSID  Command Parameter(s) : OBSERVATION_ID SP00N500  TC Control Flags :  SSID : 370  GBM IL DSE --- -- ---	SC000500  OBS_ID	
	ET=+00.00.01 UT=+00.00.01	SET_OBS_STEP  SET_OBS_STEP  Command Parameter(s) : OBSERVATION_STEP SP03N500  TC Control Flags :  SSID : 370  GBM IL DSE --- -- ---	SC003500  0 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_BBID  SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID SP01N500  TC Control Flags :  SSID : 370  GBM IL DSE --- -- ---	SC001500  80000000 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP  SET_OBS_STEP  Command Parameter(s) : OBSERVATION_STEP SP03N500  TC Control Flags :  SSID : 370  GBM IL DSE --- -- ---	SC003500  0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID  SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID SP01N500  TC Control Flags :  SSID : 370  GBM IL DSE --- -- ---	SC001500  820a0001 <hex>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.02 UT=+00.00.02	SET_OBS_MODE  SET_OBS_MODE  Command Parameter(s) : OBSERVING_MODE                      SPD2N500  TC Control Flags :  GBM IL DSE ---- -- --  SSID : 370	SC002500  2fc <hex>	
		Verify Telemetry  MODE                      SM00M500	= SMEC_OFF	AND=SA_6_559
4		Switch OFF SMEC		Next Step: 5
	ET=+00.00.01 UT=+00.00.01	Sent DRCU command to SetStrajMode  SEND_DRCU_COMMAND  Command Parameter(s) : DRCUCOMMAND                      SPD4N505 OVERRIDE                      SPD9N505  TC Control Flags :  GBM IL DSE ---- -- --  SSID : 370	SCD06505  90490000 <hex> 0 <hex> (Def)	
		Verify Telemetry  SCANMODE                      SMS2M515	= 0 <hex>	AND=SAS0_559
	ET=+00.00.00 UT=+00.00.00	Sent DRCU command to SetStrajEndPosition  SEND_DRCU_COMMAND  Command Parameter(s) : DRCUCOMMAND                      SPD4N505 OVERRIDE                      SPD9N505  TC Control Flags :  GBM IL DSE ---- -- --  SSID : 370	SCD06505  904503E8 <hex> 0 <hex> (Def)	
		Verify Telemetry  SCANEND                      SMS1P515	= 1.0000 mm	AND=SAS0_559
	ET=+00.00.01 UT=+00.00.01	Sent DRCU command to SetStrajStartPosition  SEND_DRCU_COMMAND  Command Parameter(s) : DRCUCOMMAND                      SPD4N505 OVERRIDE                      SPD9N505  TC Control Flags :  GBM IL DSE ---- -- --  SSID : 370	SCD06505  90460000 <hex> 0 <hex> (Def)	
		Verify Telemetry  SCANSTART                      SMS0P515	= 0.0000 mm	AND=SAS0_559

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Sent DRCU command to SetScanFwdSpeed SEND_DRCU_COMMAND  Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SCD06505  90471388 <hex> 0 <hex> (Def)	
		Verify Telemetry SCANFSPEED SMS0S515	= 0.5000 mm/s	AND=SAS0_559
	ET=+00.00.00 UT=+00.00.00	Sent DRCU command to SetStrajMode SEND_DRCU_COMMAND  Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SCD06505  90490001 <hex> 0 <hex> (Def)	
		Verify Telemetry SCANMODE SMS2M515	= 1 <hex>	AND=SAS0_559
	ET=+00.00.10 UT=+00.00.10	Sent DRCU command to SetSLoopMode SEND_DRCU_COMMAND  Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SCD06505  90440006 <hex> 0 <hex> (Def)	
		Verify Telemetry SMECLOOPMODE SMS1M515	= 6 <hex>	AND=SAS0_559
	ET=+00.00.00 UT=+00.00.00	Sent DRCU command to SetSEncoderPwr SEND_DRCU_COMMAND  Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SCD06505  90400000 <hex> 0 <hex> (Def)	
		Verify Telemetry SMECENCPCR SMS0W515	= 0.00 uW	AND=SAS0_559

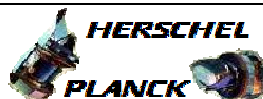
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Sent DRCU command to SetSLVDPwr  SEND_DRCU_COMMAND  Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SCD06505  90410000 <hex> 0 <hex> (Def)	
		Verify Telemetry  SMECLVDPWR SMS1W515	= 0 <hex>	AND=SAS0_559
5		Set default end conditions		Next Step: END
	ET=+00.00.00 UT=+00.00.00	SET_OBS_STEP  SET_OBS_STEP  Command Parameter(s) : OBSERVATION_STEP SP03N500  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SC003500  0 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_BBID  SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID SP01N500  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SC001500  80000000 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP  SET_OBS_STEP  Command Parameter(s) : OBSERVATION_STEP SP03N500  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SC003500  0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID  SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID SP01N500  TC Control Flags :  GBM IL DSE --- -- ---  SSID : 370	SC001500  80030001 <hex>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP  Command Parameter(s) : OBSERVATION_STEP  TC Control Flags :  SSID : 370	SET_OBS_STEP  SP03N500  GBM IL DSE --- -- --  SC003500  1 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_OBSID  Command Parameter(s) : OBSERVATION_ID  TC Control Flags :  SSID : 370	SET_OBSID  SP00N500  GBM IL DSE --- -- --  SC000500  B0000000 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_OBS_STEP  Command Parameter(s) : OBSERVATION_STEP  TC Control Flags :  SSID : 370	SET_OBS_STEP  SP03N500  GBM IL DSE --- -- --  SC003500  0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID  TC Control Flags :  SSID : 370	SET_BBID  SP01N500  GBM IL DSE --- -- --  SC001500  80000000 <hex>	
End of Procedure				